Notice of Allowability	Application No.	Applicant(s)
	10/811,912	FINK ET AL.
	Examiner	Art Unit
	Rodney G. McDonald	1753
The MAILING DATE of this communication apperatus All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apport or other appropriate communication GHTS. This application is subject to and MPEP 1308.	plication. If not included will be mailed in due course. THIS
1. This communication is responsive to <u>Amendment filed Nov</u>	<u>'ember 20, 2006</u> .	
2. The allowed claim(s) is/are <u>1-47</u> .		
 Acknowledgment is made of a claim for foreign priority unapplication. All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have Moreover and priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have * Certified copies not received: 	been received. been received in Application No	
Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXAMINER' es reason(s) why the oath or declarate	S AMENDMENT or NOTICE OF tion is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) 🔲 including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) including changes required by the attached Examiner's Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on the drawing the header according to 37 CFR 1.121(c	igs in the front (not the back) of i).
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT F 	sit of BIOLOGICAL MATERIAL m FOR THE DEPOSIT OF BIOLOGICA	nust be submitted. Note the AL MATERIAL.
Attachment(s)	<u>_</u>	
1. Notice of References Cited (PTO-892)	5. Notice of Informal Pa	• •
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	 Interview Summary (Paper No./Mail Date 	
Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. Examiner's Amendm	
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛭 Examiner's Statemen	nt of Reasons for Allowance
	9.	RODNEY G. MCDONALD PRIMARY EXAMINER

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REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

Claims 1-19 are allowable over the prior art of record because the prior art of record does not teach the claimed subject matter including a honeycomb structure comprising plural adjacent corrugated sheets attached together to form a plurality of adjacent cells in spaces between the adjacent corrugated sheets, the cells configured to allow optical viewing through the honey comb structure, each cell having an aspect ratio of length to diameter sufficient to impede a processing plasma from traveling through the full length of the cell.

Claim 20 is allowable over the prior art of record because the prior art of record does not teach because the prior art of record does not teach the claimed subject matter including a clip device configured to hold opposing ends of the honeycomb planar sheet together to form a substantially continuous liner of honeycomb material configured to line a chamber wall of a plasma processing chamber.

Claims 21-39 are allowable over the prior art of record because the prior art of record does not teach the claimed subject matter including a honeycomb structure having-comprising plural adjacent corrugated sheets attached together to form a plurality of adjacent cells in spaces between the adjacent corrugated sheets, the cells configured to allow optical viewing through the honeycomb structure, each cell having an aspect ratio of length to diameter sufficient to impede a processing plasma from traveling through the full length of the cell, and a coupling device configured to couple

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the honeycomb structure to the backing plate such that the honeycomb structure is aligned with at least a portion of the through hole in the backing plate.

Claim 40 is allowable over the prior art of record because the prior art of record does not teach the claimed subject matter including means for impeding processing plasma from traveling into contact with a viewing window of a plasma chamber and for allowing viewing through cells formed between attached adjacent corrugated sheets; and means for holding the means for impeding within an opening of a chamber liner used in the plasma chamber.

Claim 41 is allowable over the prior art of record because the prior art of record does not teach the claimed subject matter including fixedly mounting a honeycomb structure within the mounting hole, said honeycomb structure having comprising plural adjacent corrugated sheets attached together to form a plurality of adjacent cells in spaces between the adjacent corrugated sheets, the cells configured to allow optical viewing through the honeycomb structure, each cell having an aspect ratio of length to diameter sufficient to impede a processing plasma from traveling through the full length of the cell.

Claim 42 is allowable over the prior art of record because the prior art of record does not teach the claimed subject matter including a honeycomb structure comprising a plurality of adjacent cells configured to allow optical viewing through the honeycomb structure, each cell having an aspect ratio of length to diameter sufficient to impede a processing plasma from traveling through the full length of the cell; and a coupling device configured to couple the honeycomb structure to the backing plate such that the

honeycomb structure is aligned with at least a portion of the through hole in the backing plate and comprising a retaining flange that is detachably coupled to the backing plate by press contact when the backing plate is coupled to a chamber liner.

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Claims 43 and 44 are allowable over the prior art of record because the prior art of record does not teach the claimed subject matter including a honeycomb structure comprising a plurality of adjacent cells configured to allow optical viewing through the honeycomb structure, each cell having an aspect ratio of length to diameter sufficient to impede a processing plasma from traveling through the full length of the cell; and a coupling device configured to couple the honeycomb structure to the backing plate such that the honeycomb structure is aligned with at least a portion of the through hole in the backing plate and comprising at least one retaining pin fixed to the backing plate and configured to engage at least one cell of the honeycomb structure when the honeycomb structure is pressed over the at least one retaining pin.

Claim 45 is allowable over the prior art of record because the prior art of record does not teach a honeycomb structure comprising a plurality of adjacent cells configured to allow optical viewing through the honeycomb structure, each cell having an aspect ratio of length to diameter sufficient to impede a processing plasma from traveling through the full length of the cell, and a coupling device configured to couple the honeycomb structure to the backing plate such that the honeycomb structure is aligned with at least a portion of the through hole in the backing plate and comprising a retaining flange that is detachably coupled to the backing plate by press contact when the backing plate is coupled to the chamber liner.

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Claims 46 and 47 are allowable over the prior art of record because the prior art of record does not teach a honeycomb structure comprising a plurality of adjacent cells configured to allow optical viewing through the honeycomb structure, each cell having an aspect ratio of length to diameter sufficient to impede a processing plasma from traveling through the full length of the cell, and a coupling device configured to couple the honeycomb structure to the backing plate such that the honeycomb structure is aligned with at least a portion of the through hole in the backing plate and comprising at least one retaining pin fixed to the backing plate and configured to engage at least one cell of the honeycomb structure when the honeycomb structure is pressed over the at least one retaining pin.

The closest prior art of record to Saito (Japan 2000-0773951) teach an optical deposition shield with a plurality of holes. The shield however does not comprise a honeycomb structure comprising plural adjacent corrugated sheets attached together to form a plurality of adjacent cells in spaces between the adjacent corrugated sheets as required by Applicant's claims 1-19, 21-39 and 41. Nor does Saito '951 teach a honeycomb structure planar sheet having a plurality of adjacent cells and a clip device configured to hold opposing ends of the honey comb planar sheet together as required by Applicant's claim 20. Nor does Saito '951 teach means for impeding processing plasma from traveling into contact with a viewing window of a plasma chamber and for allowing viewing through cells formed between attached adjacent corrugated sheets as required by Applicant's claim 40. Nor does Saito '951 teach the coupling means for the honeycomb structure as required by Applicant's claims 42-47.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rodney G. McDonald whose telephone number is 571-272-1340. The examiner can normally be reached on M- Th with Every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam X. Nguyen can be reached on 571-272-1342. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

> Rodney G. McDonald Primary Examiner

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RM

February 13, 2007